ALX Super Tucano

Full Mission Simulator

General Description

The advanced full mission simulator for the upgraded version of the ALX Super Tucano aircraft features full simulation of all aircraft systems, emergencies and weapon delivery. It supports all types of missions such as A/G and A/A and has separate after-action debrief facilities.

Elbit Systems has the unique advantage of being both a major avionics designer and manufacturer, enabling the use of actual avionics in its simulators, which provides the advantage of full simulation fidelity together with efficient upgrade potential as the aircraft's avionics evolve.

The simulators are based on the operationally proven Elbit Systems SimEngine simulation core software suite, providing many advanced features such as scheduling, real-time performance on standard PCs and operating systems, data monitoring and injection, and database management.

Elbit Systems' Instructor Operating Station (IOS) uses Commercial Off-The-Shelf (COTS) PC's and provides a familiar Windows©-like interface. The IOS was designed by experienced flight instructors, active pilots and Human Engineering experts.

Elbit SYSTEMS Ltd.

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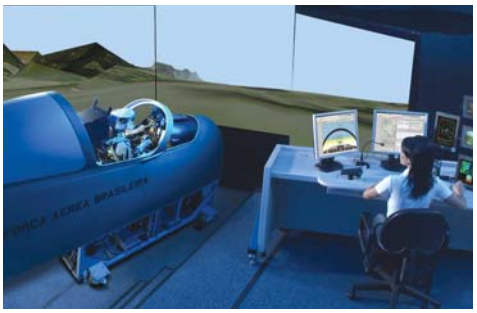
Key Features

- Simulation of aircraft sensors and weapons systems, including
- ground radar mapping and IR
- Integration of actual A/C avionics
- Integration of commercial components such as visual systems,
- control loading systems and G-seats
- Use of either built-in or external tactical scenario generators



Instructor Operating Station (IOS)

Technical Information

- Standard PCI and VME I/O interfaces
- Elbit Systems SimEngine simulation core software suite
- COTS PC-based computation system
- DIS/HLA compatible
- Multi-channel data, audio and video recording and playback
- Standard Ethernet network
- 3-channel back-projection visual system with total FOV of
- 170° x 60°
- Static accurate replica of the cockpit
- Real HUD tuned to visual system
- 3 channel control loading system
- PC-based IG with 60 HZ update rate
- Flight model tuned according to flight test

ALX Super Tucano Cockpit

Major Advantages

- Real avionics hardware, including pilot displays and controls
- Enhanced training capabilities provided by experienced Instructor
- Operating Station (IOS) and Debrief Station
- Use of COTS PCs for all components
- Highly accurate aerodynamics flight model

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Training & Simulation